| Number |      |                                                                                                                                               | DB                                                                  | Time stamp                   |
|--------|------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------|
| -      | 999  | ((101/484) or (101/483)).CCLS.                                                                                                                | USPAT;<br>US-PGPUB;<br>EPO; JPO;                                    | 2002/09/30<br>18:43          |
| -      | 3760 | ((400/61-62) or (400/70) or (400/76)).CCLS.                                                                                                   | DERWENT;<br>IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT; | 2002/09/30<br>18:46          |
| -      | 265  | print\$3 and process\$3 and job\$1 and divid\$3 and batch\$2 and time and optimize and period and separat\$3                                  | IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;             | 2002/12/15 17:45             |
| -      | 3    | print\$3 same job\$1 same divid\$3 same<br>batch\$2 same size\$1                                                                              | IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;             | 2002/09/30 18:53             |
| -      | 17   | <pre>print\$3 same job\$1 same divid\$3 same batch\$2</pre>                                                                                   | IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;                         | 2002/09/30<br>19:13          |
| -      | 188  | <pre>print\$3 and process\$3 and job\$1 and divid\$3 and batch\$2 and time and optimize and period and separat\$3 and size\$1</pre>           | DERWENT;<br>IBM_TDB<br>USPAT;<br>EPO; JPO;<br>DERWENT;              | 2002/09/30<br>19:06          |
| -      | 19   | <pre>print\$3 and (net or network) and (job\$1 same divid\$3 same batch\$2) and size\$1</pre>                                                 | IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;             | 2003/04/24 20:08             |
| -      | 8    | ("4817050"   "4888812"   "5010581"  <br>"5058185"   "5109439"   "5191525"  <br>"5418942"   "5457780").PN.                                     | IBM_TDB<br>USPAT                                                    | 2002/09/30<br>19:17          |
| -      | 3    | (net or network) and (print\$3 same job\$1 same divid\$3 same size\$1) and batch\$2                                                           | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;                        | 2002/09/30<br>19:22          |
| -      | 4    | ("4949280"   "4951280"   "5287194"  <br>"5333246").PN.                                                                                        | IBM_TDB<br>USPAT                                                    | 2002/09/30                   |
| -      | 225  | print\$3 and process\$3 and job\$1 and divid\$3 and batch\$2 and time and optimize and period and separat\$3 and size\$1 and (net or network) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;                        | 19:23<br>2003/04/21<br>16:43 |
| -      | 482  | print\$3 same batch\$2 same size\$1                                                                                                           | IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;                         | 2002/09/30<br>19:30          |
| -      |      | (((400/61-62) or (400/70) or<br>(400/76)).CCLS.) and (print\$3 same<br>batch\$2 same size\$1)                                                 | IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;                         | 2002/09/30<br>19:29          |
| -      | 4    | (((101/484) or (101/483)).CCLS.) and (print\$3 same batch\$2 same size\$1)                                                                    | IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;             | 2002/09/30<br>19:30          |
| -      | 21   | print\$3 same batch\$2 same size\$1 same<br>job\$1                                                                                            | IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;                         | 2003/05/04 18:29             |

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| _ | 279  | print\$3 same determin\$3 same size\$1 same                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | USPAT;                 | 2002/09/30          |
|---|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------|
|   |      | job\$1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | US-PGPUB;<br>EPO; JPO; | 19:41               |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DERWENT;               |                     |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IBM TDB                |                     |
| - | 16   | print\$3 same determin\$3 same size\$1 same                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | USPAT;                 | 2002/09/30          |
|   |      | job\$1 same divid\$3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | US-PGPUB;              | 19:44               |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EPO; JPO;              |                     |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DERWENT;               |                     |
| _ | 77   | print\$3 same size\$1 same job\$1 same                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | IBM_TDB<br>USPAT;      | 2002/09/30          |
|   | 1    | divid\$3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | US-PGPUB;              | 19:44               |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EPO; JPO;              |                     |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DERWENT;               |                     |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IBM_TDB                |                     |
| - | 61   | (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | USPAT;                 | 2002/09/30          |
|   |      | divid\$3 ) not (print\$3 same determin\$3 same size\$1 same job\$1 same divid\$3 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | US-PGPUB;<br>EPO; JPO; | 19:45               |
|   |      | Same Sizevi Same Jobvi Same dividos /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DERWENT;               |                     |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IBM TDB                |                     |
| - | . 5  | ("5087979"   "5640250"   "5735202"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | USPAT                  | 2002/09/30          |
|   |      | "5798843"   "5806842").PN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        | 19:47               |
| - | 161  | print\$3 and process\$3 and job\$1 and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | USPAT;                 | 2002/12/15          |
|   |      | divid\$3 and batch\$2 and time and optimize and period and separat\$3 and size and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EPO; JPO;<br>DERWENT;  | 19:39               |
|   |      | switch\$3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | IBM TDB                |                     |
| - | 1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | USPAT                  | 2002/12/15          |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        | 19:39               |
| - | 39   | ' 'F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | USPAT;                 | 2002/12/16          |
|   |      | identifying and complete and time\$1 and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | EPO; JPO;              | 02:00               |
|   |      | batch and size\$1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DERWENT;               |                     |
| _ | 16   | ((print or printing) adj job) and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IBM_TDB<br>USPAT;      | 2002/12/16          |
|   |      | identifying and complete and time\$1 and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | EPO; JPO;              | 02:05               |
|   |      | batch and size\$1 and (divide or dividing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DERWENT;               |                     |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IBM_TDB                |                     |
| - | 2    | ' 'L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | USPAT;                 | 2002/12/16          |
|   |      | (divide or dividing) same batch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EPO; JPO;              | 02:10               |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DERWENT;<br>IBM TDB    |                     |
| - | 7    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | USPAT;                 | 2002/12/16          |
|   |      | or dividing) same batch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EPO; JPO;              | 02:12               |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DERWENT;               |                     |
|   | 121  | /maint on maintains of the control o | IBM_TDB                | 0000/10/10          |
| - | 131  | (print or printing) same job same (divide or dividing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | USPAT;                 | 2002/12/16          |
|   |      | or arviating,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | EPO; JPO;<br>DERWENT;  | 02:12               |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IBM TDB                |                     |
| - | 73   | ((print or printing) adj job) same                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | USPAT;                 | 2003/04/21          |
|   |      | (divide or dividing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EPO; JPO;              | 08:17               |
|   | :    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DERWENT;               |                     |
|   | 5    | (print or printing) same ich same (divide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | IBM_TDB                | 2002/12/16          |
|   |      | (print or printing) same job same (divide or dividing) same size\$1 same time\$1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | USPAT;<br>EPO; JPO;    | 2002/12/16<br>02:13 |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DERWENT;               | 02.13               |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IBM TDB                |                     |
| - | 5    | print\$3 and job and divid\$3 and batch\$2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | USPĀT;                 | 2003/04/21          |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | US-PGPUB;              | 08:23               |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EPO; JPO;              |                     |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DERWENT;<br>IBM TDB    |                     |
| - | 1614 | print\$3 and job and batch\$2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | USPAT                  | 2003/04/21          |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ·-                     | 08:22               |
| - | 899  | print\$3 and job and divid\$3 and batch\$2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | USPAT                  | 2003/04/21          |
|   | 5    | nrinte2 and ich and disside2 and but the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        | 08:23               |
|   | 3    | print\$3 and job and divid\$3 and batch\$2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | USPAT;<br>US-PGPUB;    | 2003/04/21<br>08:34 |
|   |      | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EPO; JPO;              | 00.53               |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DERWENT;               |                     |
|   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IBM TDB                |                     |

| - | 1253 | print\$3 and job and divid\$3 and batch\$2                                                                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;          | 2003/04/21<br>08:24               |
|---|------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------|
| _ | 184  | print\$3 and job and divid\$3 and batch\$2 and shop                                                              | DERWENT<br>USPAT;<br>US-PGPUB;            | 2003/04/21                        |
|   |      |                                                                                                                  | EPO; JPO;<br>DERWENT                      |                                   |
| _ | 155  | print\$3 and shop and job and divid\$3 and batch\$2 and size and time and operation                              | USPAT;<br>US-PGPUB;<br>EPO; JPO;          | 2003/04/21<br>08:25               |
| - | 719  | print\$3 and job and divid\$3 and batch\$2 and process\$3 and time and size                                      | DERWENT<br>USPAT;<br>EPO; JPO;            | 2003/04/21<br>08:38               |
| _ | 354  | and process\$3 and time and size\$1 and operation and production and first and                                   | DERWENT<br>USPAT;<br>EPO; JPO;<br>DERWENT | 2003/04/21<br>08:41               |
| - | 134  | and process\$3 and time and size\$1 and operation and production and first and                                   | USPAT;<br>EPO; JPO;<br>DERWENT            | 2003/04/21<br>08:53               |
| _ | 1    | second and optimize and switch\$3 print\$3 same job same divid\$3 same batch\$2 same process\$3 same time same   | USPAT;<br>EPO; JPO;                       | 2003/04/21<br>08:55               |
| _ | 2    | size\$1 print\$3 same job same divid\$3 same batch\$2 same time same size\$1                                     | DERWENT<br>USPAT;<br>EPO; JPO;            | 2003/04/21<br>08:57               |
| _ | 10   | ("4009254"   "4116558"   "4348101"  <br>"4453841"   "4488801"   "4607948"  <br>"4699503"   "4806979"   "4825245" | DERWENT<br>USPAT                          | 2003/04/21<br>08:55               |
| - | 25   | "4834360").PN.                                                                                                   | USPAT                                     | 2003/04/21                        |
| _ | 14   | print\$3 same job same divid\$3 same batch\$2                                                                    | USPAT;<br>EPO; JPO;                       | 08:56<br>2003/04/21<br>09:49      |
| - | 15   | print\$3 and job\$1 same divid\$3 same batch\$2 same time                                                        | DERWENT<br>USPAT;<br>EPO; JPO;            | 2003/04/21                        |
| _ | 70   | print\$3 same job same divid\$3 same plurality                                                                   | DERWENT<br>USPAT;<br>EPO; JPO;            | 2003/04/21 10:07                  |
| - | 1    | print\$3 same job\$1 same shop same plurality same (divide or dividing or                                        |                                           | 2003/04/21 10:10                  |
| _ | 89   | separate or separating) print\$3 same job\$1 same plurality same (divide or dividing or separate or              | DERWENT<br>USPAT;<br>EPO; JPO;            | 2003/04/21<br>10:11               |
| _ | 13   | separating) print\$3 same job\$1 same plurality same (divide or dividing or separate or                          | DERWENT<br>USPAT;<br>EPO; JPO;            | 2003/04/21<br>11:40               |
| - | 4    | "6064836").PN.                                                                                                   | DERWENT<br>USPAT                          | 2003/04/21<br>10:15               |
| - | 2    | ("5844542"   "5950036").PN.<br>8286858.URPN.                                                                     | USPAT                                     | 2003/04/21<br>10:17               |
| _ | 0    | print\$3 same job\$1 same determin\$3 same                                                                       | USPAT;                                    | 2003/04/21<br>10:24<br>2003/04/21 |
| _ | 0    | <pre>(divide or dividing) same batch\$2 same size print\$3 same job\$1 same determin\$3 same</pre>               | EPO; JPO;<br>DERWENT<br>USPAT;            | 11:41<br>2003/04/21               |
| _ | 1    | I Junt Duric (alvice of                                                                                          | EPO; JPO;<br>DERWENT<br>USPAT;            | 11:41<br>2003/04/21               |
| _ | 11   | <pre>dividing) same batch\$2 same size print\$3 same job\$1 same batch\$2 same size</pre>                        | EPO; JPO;<br>DERWENT<br>USPAT;            | 11:42                             |
|   |      |                                                                                                                  | EPO; JPO;<br>DERWENT                      | 11:44                             |

| - | 72   | <pre>print\$3 and job\$1 and (batch\$2 same size<br/>same time)</pre>                                                                                       | USPAT;<br>EPO; JPO;                                     | 2003/04/21<br>15:43 |
|---|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------|
| - | 2    | batch\$2 same size same time same optimize same print\$3                                                                                                    | DERWENT<br>USPAT;<br>EPO; JPO;                          | 2003/04/21<br>15:44 |
| - | 3    | batch\$2 same size same time same optim\$3 same print\$3                                                                                                    | DERWENT USPAT;                                          | 2003/04/21          |
| - | 5    | job\$1 same size same time same (divide or                                                                                                                  | EPO; JPO;<br>DERWENT<br>USPAT;                          | 15:45               |
| _ | 158  | dividing) same print\$3  job\$1 same (divide or dividing) same                                                                                              | EPO; JPO;<br>DERWENT                                    | 15:48               |
|   |      | print\$3                                                                                                                                                    | USPAT;<br>EPO; JPO;<br>DERWENT                          | 2003/04/21<br>16:18 |
| - | /6   | <pre>job\$1 same (divide or dividing) same print\$3 same process\$3</pre>                                                                                   | USPAT;<br>EPO; JPO;<br>DERWENT                          | 2003/04/21<br>16:39 |
| _ | 16   | print\$3) and (time same (turnaround or                                                                                                                     | USPAT;<br>EPO; JPO;                                     | 2003/04/21<br>16:23 |
| - | 0    | optimize or minimize)) printshops and print\$3 and job\$1 and time and (divide or dividing)                                                                 | DERWENT<br>USPAT;<br>EPO; JPO;                          | 2003/04/21<br>16:24 |
| _ | 4    | (print adj shops) and print\$3 and job\$1 and time and (divide or dividing)                                                                                 | DERWENT<br>USPAT;<br>EPO; JPO;                          | 2003/04/21<br>16:39 |
| - | 6    | "6134568"   "6137967"   "6186682") .PN.                                                                                                                     | DERWENT<br>USPAT                                        | 2003/04/21          |
| - | 9    | job\$1 same (divide or dividing or split<br>or splitting) same print\$3 same time same<br>(turnaround or optimize or minimize or                            | USPAT;<br>EPO; JPO;<br>DERWENT                          | 2003/04/21          |
| _ | 482  | optimal) print\$3 and process\$3 and job\$1 and divid\$3 and batch\$2 and time and optim\$3 and period and separat\$3 and size\$1 and                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;                        | 2003/04/21 16:50    |
| _ | 477  | (net or network) print\$3 and process\$3 and job\$1 and divid\$3 and batch\$2 and time and optim\$3 and period and separat\$3 and size\$1 and               | DERWENT<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;             | 2003/04/21<br>16:53 |
| - | 283  | (net or network) and operation print\$3 and process\$3 and job\$1 and divid\$3 and batch\$2 and time and optim\$3 and period and separat\$3 and size\$1 and | DERWENT<br>USPAT;<br>EPO; JPO;<br>DERWENT               | 2003/04/21          |
| _ | 7    | <pre>(net or network) and operation print\$3 and (job\$1 same divid\$3 same batch\$2 same size\$1)</pre>                                                    | USPAT;<br>US-PGPUB;<br>EPO; JPO;                        | 2003/04/24<br>20:11 |
| _ | 140  |                                                                                                                                                             | DERWENT;<br>IBM_TDB<br>USPAT;                           | 2003/05/01          |
|   |      | separat\$3) same batch\$2)                                                                                                                                  | US-PGPUB;<br>EPO; JPO;<br>DERWENT;                      | 11:06               |
| _ | 54   | <pre>print\$3 and (job\$1 same (divid\$3 or<br/>separat\$3) same time same (optimize or<br/>reduce or reducing))</pre>                                      | IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT; | 2003/05/01<br>13:16 |
| - | 6    | (print adj shop) and print\$3 and job\$1 and operation and size\$1 and (divide or dividing) and ((optimize or reduce or reducing) same time)                | IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT; | 2003/05/01<br>13:23 |
| - | 1090 | print\$3 and job\$1 and operation and size\$1 and (divide or dividing) and ((optimize or reduce or reducing) same time)                                     | IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT; | 2003/05/01<br>13:54 |
|   |      |                                                                                                                                                             | IBM_TDB                                                 |                     |

| - |     | print\$3 and (job\$1 same operation same                                                                                                                                                                              | USPAT;                                                  | 2003/05/01          |
|---|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------|
|   |     | size\$1 same (divide or dividing)) and ((optimize or reduce or reducing) same time)                                                                                                                                   | US-PGPUB;<br>EPO; JPO;<br>DERWENT;                      | 13:31               |
| - | 255 | print\$3 and job\$1 and operation and (size\$1 same (divide or dividing)) and ((optimize or reduce or reducing) same time)                                                                                            | IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;             |                     |
| - | 132 | ·                                                                                                                                                                                                                     | DERWENT;<br>IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO; |                     |
| - | 88  | print\$3 and job\$1 and operation and size\$1 and (divide or dividing) and time and path\$1 and (node\$1 same edge\$1)                                                                                                | DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;             |                     |
| - | 24  | print\$3 and job\$1 and operation and size\$1 and (divide or dividing) and time and (sequence same path\$1 same node\$1)                                                                                              | DERWENT;<br>IBM_TDB<br>USPAT;<br>EPO; JPO;<br>DERWENT;  | 2003/05/01<br>14:28 |
| - | 311 | print\$3 and job\$1 and operation and size\$1 and (divide or dividing) and time and path\$1 and operation and batch\$2                                                                                                | IBM_TDB<br>USPAT;<br>EPO; JPO;<br>DERWENT;              | 2003/05/01<br>14:40 |
| - | 1   | size\$1) and ((divide or dividing) same time same path\$1)                                                                                                                                                            | IBM_TDB<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB   | 2003/05/01<br>14:34 |
| _ | 2   | <pre>print\$3 and (job\$1 same batch\$2 same<br/>size\$1 same (divide or dividing))</pre>                                                                                                                             | USPAT;<br>EPO; JPO;<br>DERWENT;                         | 2003/05/01<br>14:35 |
| - | 29  | print\$3 and (job\$1 same size\$1 same (divide or dividing))                                                                                                                                                          | IBM_TDB<br>USPAT;<br>EPO; JPO;<br>DERWENT;              | 2003/05/01 14:36    |
| - | 262 | print\$3 and job\$1 and operation and size\$1 and (divide or dividing) and time and path\$1 and operation and batch\$2 and (optimize or optimizinf or reduce or reducing) and sequence                                | IBM_TDB USPAT; EPO; JPO; DERWENT; IBM_TDB               | 2003/05/01 14:43    |
| - | 200 | print\$3 and job\$1 and operation and size\$1 and (divide or dividing) and path\$1 and operation and batch\$2 and ((optimize or optimizing or reduce or reducing) same time) and sequence and switch\$3 and select\$3 | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB              | 2003/05/01<br>14:46 |
|   | 5   | (print adj job\$1) same size\$1 same<br>(divide or dividing) and ((optimize or<br>optimizing or save or reduce or reducing)<br>same time)                                                                             | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;            | 2003/05/01<br>14:52 |
|   | 31  | (print adj job\$1) same (divide or dividing) and ((optimize or optimizing or save or reduce or reducing) same time)                                                                                                   | IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT; | 2003/05/01<br>15:00 |
|   |     | <pre>(print adj job\$1) and printing and<br/>batch\$2 and (divide or dividing) and<br/>((optimize or optimizing or save or<br/>reduce or reducing) same time)</pre>                                                   | IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT; | 2003/05/04<br>16:30 |
|   |     | (print adj job\$1) and printing and first and second and job\$1 and (divide or dividing) and ((optimize or optimizing or save or reduce or reducing) same time)                                                       | IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;             | 2003/05/04<br>17:11 |

| r | 41  | (print adj job\$1) and printing and first   | 110000    | 10000/05/0 |
|---|-----|---------------------------------------------|-----------|------------|
|   | 41  | and second and job\$1 and (divide or        | USPAT;    | 2003/05/04 |
|   |     | dividing) and ((optimize or optimizing or   | US-PGPUB; | 17:00      |
|   |     | save or reduce or reducing) with time)      | EPO; JPO; |            |
|   |     | and batch\$2 and size\$1                    | DERWENT;  |            |
| _ | 114 |                                             | IBM_TDB   |            |
|   | 114 |                                             | USPAT;    | 2003/05/04 |
|   |     | and second and job\$1 and (divide or        | US-PGPUB; | 17:03      |
|   |     | dividing) and ((optimize or optimizing or   | EPO; JPO; |            |
|   |     | save or reduce or reducing) with time)      | DERWENT;  |            |
| _ | 73  | //mmint and dal-A1\                         | IBM_TDB   |            |
|   | /3  | ((print adj job\$1) and printing and first  | USPAT;    | 2003/05/04 |
|   |     | and second and job\$1 and (divide or        | US-PGPUB; | 17:04      |
|   |     | dividing) and ((optimize or optimizing or   | EPO; JPO; |            |
|   |     | save or reduce or reducing) with time))     | DERWENT;  |            |
|   |     | not ((print adj job\$1) and printing and    | IBM_TDB   |            |
|   |     | first and second and job\$1 and (divide or  |           | ]          |
|   |     | dividing) and ((optimize or optimizing or   |           |            |
|   |     | save or reduce or reducing) with time)      |           | ĺ          |
| _ | 181 | and batch\$2 and size\$1)                   |           |            |
|   | 101 | (print adj job\$1) and printing and size\$1 | USPAT;    | 2003/05/04 |
|   |     | and job\$1 and (divide or dividing) and     | US-PGPUB; | 17:13      |
|   |     | ((optimize or optimizing or save or         | EPO; JPO; |            |
|   |     | reduce or reducing) same time)              | DERWENT;  | Į.         |
| _ | 74  | //mmint - 35 3-1-01\ 3 1                    | IBM_TDB   |            |
| _ | /4  | ((print adj job\$1) and printing and        | USPAT;    | 2003/05/04 |
|   |     | size\$1 and job\$1 and (divide or dividing) | US-PGPUB; | 17:13      |
|   |     | and ((optimize or optimizing or save or     | EPO; JPO; |            |
|   |     | reduce or reducing) same time)) not         | DERWENT;  |            |
|   |     | ((print adj job\$1) and printing and first  | IBM_TDB   |            |
|   |     | and second and job\$1 and (divide or        |           |            |
|   |     | dividing) and ((optimize or optimizing or   |           |            |
| _ | 22  | save or reduce or reducing) with time))     |           |            |
| - | 22  | (print\$3 same job\$1) and (batch\$2 same   | USPAT;    | 2003/05/04 |
|   |     | size\$1) and (divide or dividing)           | US-PGPUB; | 18:55      |
| İ |     |                                             | EPO; JPO; |            |
|   |     |                                             | DERWENT;  |            |
| _ | 25  | mnint() and in () ()                        | IBM_TDB   |            |
| - | 25  | print\$3 and job\$1 and path\$1 and         | USPAT;    | 2003/05/04 |
|   |     | operation and (divide or dividing) and      | US-PGPUB; | 18:58      |
|   | [   | (batch\$2 with size\$1)                     | EPO; JPO; |            |
| Į |     |                                             | DERWENT;  |            |
|   |     |                                             | IBM_TDB   | <u></u>    |